

Panoramic Power's High Current Wireless Sensor

The Panoramic Power sensor series is made up of non-invasive, self-powered, miniature wireless current sensors. The PAN-14 high-current sensor attaches to any size standard 0-5 A current transformer, allowing measurements at any current range or wire gauge. Hundreds of sensors can be installed in a few hours with no disturbance of daily operations. Powered by magnetic fields, the sensors become part of the building infrastructure, never requiring maintenance, service or battery replacement.



PAN-14 mounted on an off-the-shelf CT

Specifications	PAN-14
Physical dimensions	33.8 x 29 x 42.5 mm 1.33 x 1.14 x 1.67 inch
Current input range (from external current transformer)	0-5 A _{RMS} (up to 10 A peak)
Current measurement range	Any applicable range based on CT ratio
Current measurement accuracy (typical, at 25°C)	<2% at I > 2% of full-scale current
Minimum operating current (at input from external current transformer)	0.03 – 0.05 A
AC frequency supported	50 Hz (EU version) 60 Hz (US version)
Transmission frequency	434 MHz (EU) 915 MHz (US)
Transmission power (ERP)*	0 dBm (Max)
Transmission interval	10 seconds
Safety and EMC certificates*	USA & Canada Safety: UL-61010-1, CSA-C22.2 (ETL listed) EMC/Radio: FCC Part 15 subpart B, C Europe Safety: EN-61010-1 (CE) EMC: EN-ETSI 301489-3, Radio: EN-ETSI 300220-1 Israel Safety: IS-61010-1 (IEC 61010-1 modified) Radio: MoC Approval
Flammability rating of external enclosure	UL94 V-0
Operating temperature	0 – 50° C
Storage temperature	-20 – 65° C
<i>*Pending certification testing</i>	

Key Features

- Connects to any standard 0-5A CT
- No maintenance; self-powered (does not require battery)
- High accuracy
- Wireless – sensor & CT are closed around the hotwire with no additional wiring
- Real-time high-frequency current data transmitted every 10 seconds